

CHALLENGER G12-150

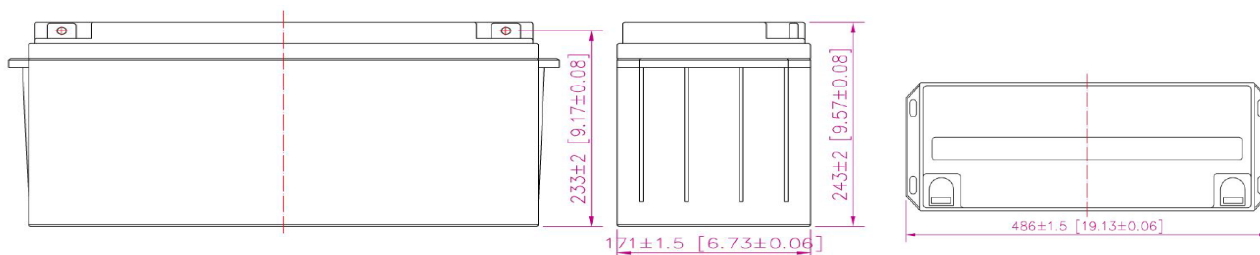
CHALLENGER



Challenger G12-150 – VRLA battery with GEL technology. G12 is designed for cycling usage and discharge application under extreme conditions. By using strong grid, high purity lead and patented GEL electrolyte, G series offer excellent recovery after deep discharge and can deliver 400 cycles at 100% DOD. Suitable for solar, wind energy, photovoltaic, marine and RV, for deep discharge UPS applications.

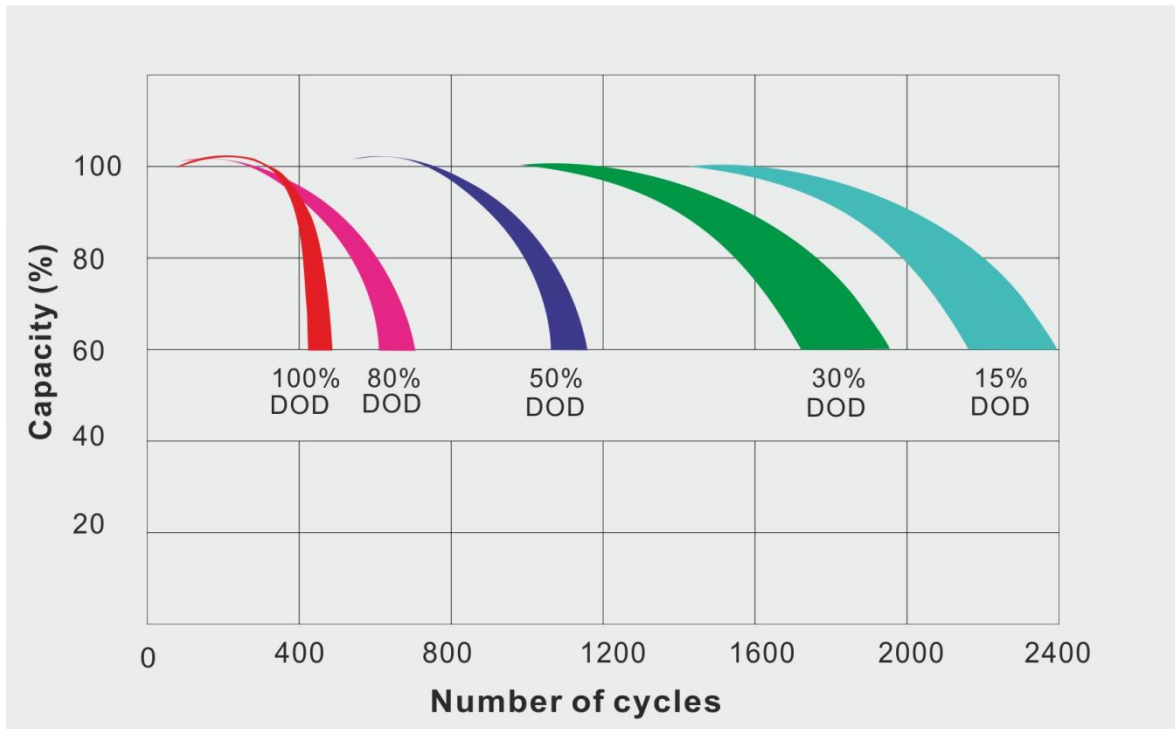
Model	Capacity, Ah		Dimension, mm			Weight, kg
	C10@1,80vpc	C20@1,75vpc	L	W	H	
G12-150	150	159.2	486	171	233	42.9

Voltage, V	12 V
Max discharge current, A	2000 (5 sec)
Internal resistance	16 mΩ
Operating temperature range	discharge: -20...+60 ⁰ C charge: -20...+50 ⁰ C storage: -20...+50 ⁰ C
Float charging voltage	14.5-15.0 V (25 ⁰ C)
Recommended max charge current	40,0A
Equalization and cycle service	7.1-7.2V (25 ⁰ C)
Self Discharge	< 2% / month
Terminals	B4/T19
Case material	ABS (UL94-HB). Option - UL94-HB (V0) (on request)
Positive plate	Flat plate, lead dioxide
Negative plate	Flat plate Pb-Ca-Tn alloy
Lead	99,9998% purity
Separator	PE



Constant Current Discharge (CC, Unit: A) at 25°C (77°F)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	533.22	314.77	247.39	161.27	94.12	54.41	41.78	34.31	28.11	22.92	14.74	7.31
1.80V/Cell	543.40	320.78	252.12	164.35	95.92	55.45	42.58	34.96	28.65	23.36	15.00	7.96
1.75V/Cell	553.59	326.79	256.84	167.43	97.71	56.48	43.38	35.62	29.19	23.79	15.30	8.11
1.70V/Cell	603.41	346.40	272.26	174.11	99.43	57.48	44.14	36.24	29.70	24.21	15.57	8.25
1.67V/Cell	664.31	375.81	295.37	183.83	100.50	58.09	44.61	36.63	30.02	24.47	15.74	8.34
Constant Power Discharge (CP, Unit: W) at 25°C (77°F)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	1039.7	613.80	482.42	314.47	183.53	106.09	81.47	66.90	54.82	44.69	28.74	15.23
1.80V/Cell	1059.6	625.52	491.63	320.47	187.04	108.12	83.03	68.18	55.87	45.54	29.25	15.52
1.75V/Cell	1079.5	637.25	500.85	326.48	190.54	110.15	84.58	69.46	56.91	46.40	29.84	15.81
1.70V/Cell	1176.6	675.48	530.90	339.51	193.89	112.08	86.07	70.68	57.92	47.22	30.36	16.09
1.67V/Cell	1295.4	732.83	575.97	358.48	195.97	113.28	86.99	71.43	58.54	47.72	30.69	16.26

Challenger Deep Cycle GEL G12 Number of cycles vs DOD



Number of cycles for Challenger G12 (80% DOD)

